

HOWTO: Insert a Page Into an Existing TIFF

Updated Content

This task has been made much easier with the addition of the TiffDocument class. This class lets you perform page level operations on TIFFs such as reordering, adding or removing pages.

[C#]

```
tring targetFile = @"c:\pathTo\TargetTiff.tif"; string additionalSourceFile =
@"c:\pathTo\another.tif"; using (FileStream inStream = new FileStream(targetFile,
 FileMode.Open, FileAccess.Read, FileShare.Read)) { TiffDocument tDoc = new
TiffDocument(inStream); // removing the pages we want gone // NOTE This is example code.. it
is making assumptions that the // frames you want to remove are present.. in your real code,
you will // want to be sure the frame exists etc... // NOE: removing an item from the
collection changes the collection so // work BACKWARD // IN this example we want to remove
pages 5 and 6 // TiffDOucrement.Pages is zero indexed so this is frames 4 and 5
tDoc.Pages.RemoveAt(5); tDoc.Pages.RemoveAt(4); // Now, lets say we want to add the the first
page of additionalSourceFile at the end of targetFile // note that this stream must be kept
open until save is complete... // because tDoc is referencing the page from tDoc2 while it's
open and until that save using (FileStream inStream2 = new FileStream(additionalSourceFile,
 FileMode.Open, FileAccess.Read, FileShare.Read)) { TiffDocument tDoc2 = new
TiffDocument(inStream2); // we're just adding the first page of tDoc2 to the end of this // we
could insert at any location etc.. tDoc.Pages.Add(tDoc2.Pages[0]); // once we're done adding
all the things, we save so we can close out
tDoc.Save(@"c:\pathTo\some_new_Combined_tiff.tif"); } }
```

Original Content - OUTDATED

There may be times when a user wants a page to be inserted into an existing TIFF file. To do this, the file must be recreated. Below is example code for performing this action.

[C#]

```
private void InsertTiffPage(int index, AtalaImage image, string fileName) { FileStream fs =
new FileStream(fileName, FileMode.Open, FileAccess.Read, FileShare.Read); // Validate the
file. TiffDecoder decoder = new TiffDecoder(); if (!decoder.IsValidFormat(fs)) throw new
ArgumentException("The filename provided is not a valid TIFF file."); fs.Seek(0,
 SeekOrigin.Begin); // Validate and correct the index. int count = decoder.GetFrameCount(fs);
if (index > count) index = count; if (index < 0) index = 0; // Save the new image to a temp
file. string newFile = System.IO.Path.GetTempFileName(); FileStream newFs = new
FileStream(newFile, FileMode.Open, FileAccess.ReadWrite, FileShare.None); // Loop through the
pages and insert the new page. count++; int readIndex = 0; TiffEncoder encoder = new
```

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```
TiffEncoder(); for (int i = 0; i < count; i++) { AtalaImage img = null; if (i == index) img =
image; else { fs.Seek(0, SeekOrigin.Begin); img = decoder.Read(fs, readIndex, null);
readIndex++; } // Set the compression. if (img.PixelFormat == PixelFormat.Pixel11bppIndexed)
encoder.Compression = TiffCompression.Group4FaxEncoding; else encoder.Compression =
TiffCompression.Lzw; newFs.Seek(0, SeekOrigin.Begin); encoder.Save(newFs, img, null); // Done
with the image. if (img != image) img.Dispose(); // All pages except the first must be
appended. encoder.Append = true; } fs.Close(); newFs.Close(); // Copy the temporary image to
replace the old one. File.Copy(newFile, fileName, true); // Delete the temp file.
File.Delete(newFile); }
```

[Visual Basic]

```
private Sub InsertTiffPage(ByVal index As Integer, ByVal image As AtalaImage, ByVal fileName
As String) Dim fs As FileStream = New
FileStream(fileName, FileMode.Open, FileAccess.Read, FileShare.Read) ' Validate the file. Dim
decoder As TiffDecoder = New TiffDecoder() If Not decoder.IsValidFormat(fs) Then Throw New
ArgumentException("The filename provided is not a valid TIFF file.") End If fs.Seek(0,
SeekOrigin.Begin) ' Validate and correct the index. Dim count As Integer =
decoder.GetFrameCount(fs) If index > count Then index = count If index < 0 Then index = 0 '
Save the new image to a temp file. Dim NewFile As String = System.IO.Path.GetTempFileName()
Dim NewFs As FileStream = New
FileStream(NewFile, FileMode.Open, FileAccess.ReadWrite, FileShare.None) ' Loop through the
pages and insert the new page. count = count + 1 Dim readIndex As Integer = 0 Dim encoder As
TiffEncoder = New TiffEncoder() Dim i As Integer For i = 0 To count - 1 Step i + 1 Dim img As
AtalaImage = Nothing If i = index Then img = image Else fs.Seek(0, SeekOrigin.Begin) img =
decoder.Read(fs, readIndex, Nothing) readIndex = readIndex + 1 End If ' Set the compression.
If img.PixelFormat = PixelFormat.Pixel11bppIndexed Then encoder.Compression =
TiffCompression.Group4FaxEncoding Else encoder.Compression = TiffCompression.Lzw End If
NewFs.Seek(0, SeekOrigin.Begin) encoder.Save(NewFs, img, Nothing) ' Done with the image. If
img <> image Then img.Dispose() End If ' All pages except the first must be appended.
encoder.Append = True Next fs.Close() NewFs.Close() ' Copy the temporary image to replace the
old one. File.Copy(NewFile, fileName, True) ' Delete the temp file. File.Delete(NewFile) End
Sub
```

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